

2450

NORTHERN REGION - R-1

FOREST = **14 - Kootenai** \*

DISTRICT **07 - Cabinet** \*

Expiration Date = April 1, 2014

V13.2

**TIMBER SALE AND  
TRANSACTION EVIDENCE  
APPRAISAL REPORT**

Select Contract Type

**Pilgrim**  
(SALE NAME)

TIM # **71304**

TYPE **6 - Contract Form 2400-6**

UOM **TON**

\_\_\_\_\_  
Prepared by (Signature)

\_\_\_\_\_  
(Date)

\_\_\_\_\_  
Prepared by (Signature)

\_\_\_\_\_  
(Date)

\_\_\_\_\_  
Approved by (Signature)

\_\_\_\_\_  
(Date)

\_\_\_\_\_  
Reviewed by (Signature)

\_\_\_\_\_  
(Date)

All attached documents and specifications for this timber sale have been completed in accordance with regulations at 36 CFR, Part 223, Subpart B, and the applicable Forest Service Manual and Handbook requirements and standards related to timber sales. Furthermore, the environmental documentation and NEPA decision have been reviewed; no significant new information or changed circumstances relating to the environmental impacts of this proposed action exist that require a correction, supplement, or revision to the documentation or decision; and implementation (advertisement) should continue.

Certification Reports for Gates 3 and 4 from TIM are attached to this timber sale report.

\_\_\_\_\_  
Timber Sale Final Package Approved By:

\_\_\_\_\_  
(Date)

## TIMBER SALE INFORMATION

### TIM, Gate 3, Create Timber Sale (Prep101)

#### Sale Area Description:

Primary County Name (FIPS Code):

089 - Sanders \*

Sale Area Legal Description (short T & R):

T25N R34W PMM

Sale Area Legal Description (long):

Portions of Sections 8,9,16,17,21,T25N,R32W, Sec 5,6,7, 10,11,14,15 ,T25N,R33W, Sec1,12,T25N,R34W, Sec16,17,20,21,31,32T26N,R33W, Sec26,35,36T26N,R34W, Sanders County, State of Montana,PMM

*The format that the description is entered here and inputted to TIM is exactly the way it will print out in the Contract, Ad and prospectus at Gate 4.*

Compartment (s):

17

#### Environmental Documentation:

Project Association: List NEPA Project(s) that approved the timber sale.

##### NEPA Document Name

##### Percentage of Sale Volume (CCF)

Pilgrim Creek Timber Sale Project

100

*The above NEPA Document(s) shall be included in the Prospectus, General Narrative, TIM Gate 4 - Prospectus (ADVR115). Include the following statement in the Prospectus: The environmental document(s) that approved this sale: \_\_\_\_\_*

Briefly describe additions or changes made to project design during timber sale preparation.

**TSPIRS INFORMATION, SALE OBJECTIVES**

**TIM, Gate 3, Create Timber Sale (Prep101)**

**Purpose (TIM -PREP101)**

**Activity**

**% of Sale Volume - CCF (TIM - PREP101)**

TC - Timber Commodity Purpose	*
	*
	*

01 - Timber Purpose	*
	*
	*

100

**KOOTENAI SALE PURPOSE CODING INSTRUCTIONS**

[www.fs.fed.us/im/directives/fsh/2409.18/2409.18\\_20.doc](http://www.fs.fed.us/im/directives/fsh/2409.18/2409.18_20.doc)

**Management Areas**

**Sale Purpose Code**

**Type of sale**

All suitable MA's  
(MA 11, 12, 14, 15, 16, 17)

TC/01

All sawtimber, non-sawtimber and fuelwood sales on all contract forms including permits.

Non suitable MA's

FS/ \_\_\_\_

All sawtimber sales, select the most appropriate activity based on documented sale purpose.

***In the absence of documented sale purpose reasons for unsuitable MA's, the following codes, based on stated goals and objectives in the Forest Plan, will be used.***

MA 3, 5, 19  
MA 6  
MA 10  
MA 18

FS/10  
FS/20  
FS/30  
FS/90

General salvage  
Hazard tree removal  
Wildlife Habitat Improvement  
Test Regen Techniques

**Percentage:** The percentage distribution will be 100% EXCEPT when an individual sale includes a mix of suitable and unsuitable MA's. In this circumstance, the percentage split between TC and FS coding will be based on the sawtimber volume in the MA's. DO NOT distribute the percentage for nonchargeable product volume that may be included on sawtimber sales in suitable MA's. Code these as 100% TC/01.

Convertible product permits and non timber commercial sale contracts or permits.

FS/70/100%

Commercial sale of post, poles, Christmas trees, mushrooms, etc.

Firewood or Christmas Permits

PP/80/100%

Intent is personal use.

### SALVAGE SALE FUND INFORMATION

**TIM, Gate 4, Salvage Sale Fund Plan (ADVR112)**

Reference to FSH 2409.19 - 71.12 - for assistance with SSF collections

[https://fs.usda.gov/FSI\\_Directives/wo\\_2409.19\\_70.doc](https://fs.usda.gov/FSI_Directives/wo_2409.19_70.doc)

### SSF Silviculture Treatment Type (Pick one)

Salvage Component with Sanitation, Stand Improvement, or Regeneration \*  
(Use for all other sales - stand(s) that include a salvage component)

SSF Volume (CCF):   % of total volume

### FUNDING SOURCE

Funding Source (button on tool bar) - From STAT102

Sale Preparation Funding Source ---SSSS (Salvage Fund) %

(Contact SO for percentage to enter into Funding Source form. Funding Source percentage must be equal to or less than % of salvage in the SSF Plan.)

### CRUISE INFORMATION

CRUISE: #

CHECK CRUISE:

Date of Cruise

Date of Check:

Cruisers:

Cruisers:

Method:

Results:

SE%:

Method of determining ROW volume:

Inside ROW + Outside ROW (timbered) + Outside ROW (non-timbered) = Total ROW Acres

(Total ROW acres needs to equal ROW clearing acres in road package) (may involve a slight fudge factor in

Basis for Percent Defect:

ssf=LP and DF/Root Rot

# TOTAL CF VOLUME BY UNIT --- NCS REPORT

Unit #	Acres	Sawtimber	CCF	Non-Saw	CCF
ROW units need to be entered last					
1	26	58057	581	4275	43
2	68	140993	1410	28125	281
3	69	143066	1431	28538	285
4	31	71704	717	11789	118
5	14	32383	324	5342	53
6	8	18504	185	3042	30
8	62	85245	852	87396	874
10T	12	21068	211	15130	151
10S	49	86026	860	61782	618
10B	76	104494	1045	91804	918
11B	25	34373	344	30199	302
12S	10	15060	151	15860	159
12	171	257529	2575	271202	2712
12B	75	103120	1031	105721	1057
16	8	14365	144	3355	34
18	26	60139	601	9887	99
19	26	46685	467	10904	109
21A	31	55663	557	13001	130
21B	30	53867	539	12582	126
23	4	7023	70	5043	50
23B	18	32320	323	7549	75
24	21	37707	377	8807	88
25	30	69391	694	11408	114
26	57	102347	1023	23905	239
27	30	69391	694	11408	114
28	20	48250	483	9355	94
28A	3	7237	72	1403	14
29	16	38600	386	7484	75
30	8	12048	120	12688	127
		2647489	Sawtimber	1146241	Non-Saw
		18267	26477	9089	11462
		(Sheet 1)	(Sheet 1&2)	(Sheet 1)	(Sheet 1&2)

**NET**  
**MBF/CCF Ratio from**  
**NCS Report CS1**  
 Sawtimber (Product 01)  
 0.5071  
 Non-Saw (Product 08)  
 0.5158

## TOTAL SALE CF VOLUME BY SPECIES --- NCS REPORT (R101)

Species	Saw	Rounded	%Defect	Av. DBH	Logs/Unit
AF	38362	384	10	9.9	19.8
C	12454	125	14	9.3	20.6
DF	1032400	10323	11	12.6	14
GF	352671	3527	15	11.5	13.6
H	86719	867	12	9.5	13.6
L	71640	716	13	9.3	21.4
LP	997603	9976	11	9.7	20.2
PP	16832	168	10	11.8	13.6
S	33052	331	9	10.8	16.7
WP	6002	60	8	10.5	22.3

2647735

TOTAL VOLUME 26477 CCF

ROUNDED VOLUME IS THE DIFERENCE BETWEEN UNIT VOLUME AND SPECIES VOLUME (AFTER  
 ROUNDING TO CCF) ADDED TO THE SPECIES WITH THE LARGEST VOLUME

## NCS REPORT (UC5)

Non-Saw	Rounded
13407	134
2903	29
119941	1199
52765	528
68662	687
35450	355
842637	8427
1701	17
6132	61
2520	25

1146118

11462 CCF

### TOTAL CF VOLUME BY UNIT --- UC5 REPORT

Non-Saw	CCF
---------	-----

**ROW units need to be entered last**

[illegible][illegible]

820834

## Sawtimber

237257

## Non-Saw

**TOTAL UNIT VOLUME CCF**  
**SHEETS 1&2**

26477

11462

**CUTTING UNIT DESCRIPTION**  
(TIM GATE 3 - PREP 104)

**VOLUME - DIRECT ENTRY**  
(TIM GATE 3 - PREP 103)

Unit #	P.U.#	Cruise Unit Acres	Appraisal Unit Acres	ROW Acres	Logging Method	Harvest Method	Land Suit Class	MA	Unit Volume CCF	Non-Saw	Yield Component
ROW units need to be entered last									Sawtimber		NL
Enter KNF MAs Here											
1	1	26	26		420	220	500	12	581	43	624
2	1	68	68		420	220	500	12	1410	281	1691
3	1	69	69		420	220	500	12	1431	285	1716
4	1	31	31		430	121	500	12	717	118	835
5	1	14	14		430	121	500	12	324	53	377
6	1	8	8		430	121	500	12	185	30	215
8	1	62	62		430	121	500	12	852	874	1726
10T	1	12	12		420	132	500	12	211	151	362
10S	1	49	49		430	132	500	12	860	618	1478
10B	1	76	76		430	132	500	12	1045	918	1963
11B	1	25	25		430	132	500	12	344	302	646
12S	1	10	10		430	132	500	12	151	159	310
12	1	171	171		420	132	500	12	2575	2712	5287
12B	1	75	75		430	121	500	12	1031	1057	2088
16	1	8	8		430	220	500	12	144	34	178
18	1	26	26		430	121	500	12	601	99	700
19	1	26	26		430	220	500	12	467	109	576
21A	1	31	31		430	220	500	12	557	130	687
21B	1	30	30		420	220	500	12	539	126	665
23	1	4	4		420	132	500	12	70	50	120
23B	1	18	18		420	220	500	12	323	75	398
24	1	21	21		430	220	500	12	377	88	465
25	1	30	30		430	121	500	12	694	114	808
26	1	57	57		430	220	500	12	1023	239	1262
27	1	30	30		430	132	500	12	694	114	808
28	1	20	20		430	220	500	12	483	94	577
28A	1	3	3		420	220	500	12	72	14	86
29	1	16	16		420	220	500	12	386	75	461
30	1	8	8		420	132	500	12	120	127	247
Totals Sheet 1				1024	1024	0			18267	9089	27356
											0

Total Sale Area: 0 Sale Area Acres  
 Total Cutting Area: 1024 Acres  
 (Sheet 1)

Total Sawtimber  
 Total Saw + Non-Saw

(Sheet 1) 18267 CCF  
 (Sheet 1) 27356 CCF

**VOLUME - DIRECT ENTRY  
(TIM GATE 3 - PREP 103)**

26477	CCF
37939	CCF

Total Sawtimber	(Sheets 1&2)
Total Saw + Non-Saw	(Sheets 1&2)

Total Sale Area: 



 Sale Area Acres  
 Total Cutting Area: 



 Acres  
 (Sheets 1&2)

# APPRAISAL CCF TO TON WORKSHEET

## SAWTIMBER - CCF

Species	Defect %	Net Volume	Total Additional	Total Net	Tons Per CCF	Total Tons
AF	10	384	0	384	2.4735	950
C	14	125	0	125	2.3540	294
DF	11	10323	0	10323	3.0160	31134
GF	15	3527	0	3527	3.1275	11031
H	12	867	0	867	3.2425	2811
L	13	716	0	716	3.1935	2287
LP	11	9976	0	9976	3.0210	30137
PP	10	168	0	168	3.2230	541
S	9	331	0	331	2.7040	895
WP	8	60	0	60	3.2230	193
<b>TOTAL =</b>	<b>12</b>	<b>26477</b>	<b>0</b>	<b>26477</b>		<b>80273</b>

Net MBF/CCF Ratio For  
Sawtimber From NCS

Report CS1 **0.5071**

**TIM** Prep 105  
Conversion Factors

**MBF** **CCF**  
**0.1672** **0.3298**

## NON-SAWTIMBER - CCF

Species	Net Volume	Additional Non-Saw	Total Net	Tons Per CCF	Total Tons
AF	134		134	2.3340	313
C	29		29	2.1400	62
DF	1199		1199	2.7885	3343
GF	528		528	2.9470	1556
H	687		687	3.0590	2102
L	355		355	3.0785	1093
LP	8427		8427	2.1371	18009
PP	17		17	3.1510	54
S	61		61	2.6330	161
WP	25		25	3.1500	79
<b>TOTAL =</b>	<b>11462</b>	<b>0</b>	<b>11462</b>		<b>26772</b>

Net MBF/CCF Ratio For  
Non-Sawtimber From NCS

Report CS1 **0.5158**

**TIM** Prep 105  
Conversion Factors

**MBF** **CCF**  
**0.2208** **0.4281**

<b>TOTALS =</b>	<b>Gross</b>	<b>Net</b>	<b>Tons</b>
	<b>0</b>	<b>37939</b>	<b>107045</b>

## APPRAISAL SUMMARY

CONTRACT VOLUME (CCF)	<b>37939</b>
APPRAISAL VOLUME (CCF)	<b>26477</b>
CONTRACT VOLUME (TONS)	<b>107045</b> (Note: Total Tons to be used for Rd. Maintenance Appr.)
WTD TONS/CCF	<b>2.82</b>

**ASSIGN CONTRACT SPECIES**

TIM Gate 3 - Prep 105

**Contract Species Association**

Contract species shall be grouped to reflect differences in utilization and/or how species shall be grouped in A(T) 2 of the Timber Sale Contract.

All Non-sawtimber shall be grouped as Combined Softwood (CS) under Contract Species

**UTILIZATION STANDARDS**

TIM Gate 4 - Contract Prep Information ADV114

Fill out Minimum Specifications below to reflect how sawtimber & non-sawtimber were cruised.

From the list below select the description of non-sawtimber products that reflect how the products were cruised and input in NCS.

The description below is to be included in A(T)2 of timber sale. (Refer to non-sawtimber appraisal guide for more details & instructions).

Contract Species  (Major Species Group)	Full Name for Contract	Conversion Factors (only applicable to weight scale sales) (Enter from Species Volume Summary)		Minimum Specifications				
		MBF	CCF	DBH	Number of Pieces	Length	DIB	Merch. Factor
<input checked="" type="checkbox"/> Live and Dead	DF& Other	0.1672	0.3298	7	1	8.0	5.6	10.67
<input type="checkbox"/>								
<input checked="" type="checkbox"/> CS	Live and Dead	0.2208	0.4281	4	1	8.0	2.5	N/A
<input type="checkbox"/> C14	Cedar Products - Net Merch. Factor - Refer to C(T)6.804#							

**Select Non-Sawtimber Products description from the following:**

<input checked="" type="checkbox"/>	Non-Sawtimber products include (C(T)2.2): Primary product includes all trees 4.0" to 6.9" DBH (less than minimum Sawtimber specifications shown in A(T)2); secondary product include tops of Sawtimber trees less than diameter inside bark at small end shown in A(T)2; and all trees not meeting minimum Sawtimber specifications but containing at least 50% pulpable woodfiber in terms of gross cubic volume. (C(T)6.801)
<input type="checkbox"/>	Non-Sawtimber products include (C(T)2.2): secondary product which are the tops of Sawtimber trees less than diameter inside bark small end shown in A(T)2; and any portion of a Sawtimber tree not meeting minimum Sawtimber specifications shown in A(T)2 but containing at least 50% pulpable woodfiber in terms of gross cubic volume (C(T)6.801).
<input type="checkbox"/>	Non-Sawtimber products include (C(T)2.2): secondary product which is the top portion of Sawtimber trees less than diameter inside bark small end shown in A(T)2 and containing at least 50% pulpable woodfiber in terms of gross cubic volume (C(T)6.801).
<input type="checkbox"/>	Non-Sawtimber products include (C(T)2.2): Primary product includes all trees X.X" to 6.9" DBH (less than minimum Sawtimber specifications shown in A(T)2) and secondary product which are tops of Sawtimber trees less than diameter inside bark at small end shown in A(T)2 and containing at least 50% pulpable woodfiber in terms of gross cubic volume (C(T)6.801).
<input type="checkbox"/>	Non-Sawtimber products include (C(T)2.2): Primary product includes all trees X.X" to 6.9" DBH (less than minimum Sawtimber specifications shown in A(T)2) and containing at least 50% pulpable woodfiber in terms of gross cubic volume (C(T)6.801).

### AVERAGE EXTERNAL YARDING DISTANCE

Unit #	Volume CCF	AEYD Feet	% Slope
1	581	350	To Calculate % Slope
2	1410	1500	
3	1431	750	Top Elevation
4	717	1200	
5	324	750	
6	185	350	Bottom Elevation
8	852	650	
10T	211	500	
10S	860	1500	EYD Distance (ft)
10B	1045	1000	
11B	344	900	% Slope =
12S	151	500	#DIV/0!
12	2575	1600	
12B	1031	900	
16	144	550	
18	601	750	
19	467	1000	
21A	557	600	
21B	539	1000	
23	70	250	
23B	323	550	
24	377	500	
25	694	500	
26	1023	700	
27	694	700	
28	483	1000	
28A	72	300	
29	386	450	
30	120	1000	
Tractor			
420	11143	VOL	Forwarder
	1077	AVE EYD	
Skyline			
430	15334	VOL	
	1006	AVE EYD	

## HAUL

Appraisal Point:

T-Falls

State Montana

Total Sawtimber Tributary Volume:

26,477

(The appraisal point is most advantageous when total transportation cost, including road work, are less than other appraisal points. Appraise to a mill where timber product can be processed. SBA Set Aside Sales are appraised the same way; not to the nearest SBA mill)

(Haul Appraisal for Sawtimber only. Non-Sawtimber included in Non-Sawtimber Adjustments)

## WTD HAUL MILES

## WTD Haul Note

Segment	Units																Segment Miles		Sawtimber Trib Vol	WTD Miles
																	Paved	Unpaved		
2719	10B	11B	12B	16														3.9	2564	0.38
149	12S	18	19	16	12													4.4	7108	1.18
2744C	26	27																0.9	1717	0.06
2744D	26	27																2.72	1717	0.18
2744	10S	25	24	27	26	12S	8											9.5	4651	1.67
2718	23	21B	21A	23B														1.7	1489	0.10
49 COUNT	12S	18	19	16	12	12B	11B	10B	10T	21B	21	10S	25	24	27			5	9733	1.84
49 COUNT	26	12S	8	23	21B	21A	23B											5	3515	0.66
2706B	1	2																		
2706C	3																	0.75	1991	0.06
2706	1	2	3	4	5	6												0.25	1431	0.01
2229 count	1	2	3	4	5	6												5.95	4648	1.05
9/149 TO H	1	2	3	4	5	6											3.7		4648	0.65
9/149 TO H	12S	18	19	16	12	12B	11B	10B	10T	21B	21	10S	25	24	27		1		8163	0.31
																	1		9733	0.37
2746	34	34A	35	39	39B	39C	40	40B	40C											
229 TO HW	34	34A	35	39	39B	39C	40	40B	40C								5		4806	0.84
																			4806	0.91
2710	31	32																		
2214	28	28A	29	30	31	32												1.03	603	0.02
2214H	36	37																6.25	1664	0.39
2214	28	28A	29	30	31	32	36	37										2.11	1594	0.13
O MRTN B	28	28A	29	30	31	32	36	37										3.75	3258	0.46
BRIDGE T	28	28A	29	30	31	32	36	37										2.2	3258	0.27
																		8	3258	0.98

WTD Total Paved Miles

2.2

WTD Total Unpaved Miles

10.3

WTD Total Miles

12.5

(Sheet 1)

## HAUL #2

**Appraisal Point:**

**Total Sawtimber Tributary Volume:**

<b>T-Falls</b>	<b>26,477</b>
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## WTD HAUL MILES

## WTD Haul Note

[illegible]

WDT Total Paved Miles

**WDT Total U**  
**10.3**  
**(Sheets 18&2)**

**WDT Total Miles**  
**49.8**  
**(Sheets 1&2)**

## NON-SAWTIMBER ADJUSTMENTS

### DATA INPUT

Delivered Log Price (\$/Ton, Nonsawtimber material)	\$39.55	
Total Nonsawtimber Volume (CCF) (Primary + Secondary)	11,462	
Total Nonsawtimber Volume (Tons) (Primary + Secondary)	26,772	
Tons / CCF for nonsawtimber material	2.34	0.00 Adjustment
Total Appraised Sawlog Volume (CCF)	26,477	
Total One Way Weighted Haul Miles	75	25 Adjustment

Logging System	All Ground Based	All Cable	Forwarder
Nonsawtimber Primary Product (CCF)	3,443	5,007	
Net MBF / Acre Harvested for nonsawtimber primary product	3.0	0.2	0
Average DBH Harvested for nonsawtimber primary product	6.8	6.8	
Average Yarding Distance (Feet)	1,077	1,006	0
Nonsawtimber Primary Product (Tons)	8,042	11,695	0
Net Tons / Acre Harvested for nonsawtimber primary product	7.0	0.4	15.9

Nonsawtimber Adjustment	
Final Nonsawtimber Value (\$/CCF) A positive number is a negative value.	-\$1.86
Final Nonsawtimber Adjustment to enter into TE appraisal program (\$/CCF)	\$1.86

### RIGHTS - OF - WAY

(Include Cost share Agreements)

Road Name	Road #	Length	Type of Agreement	Agreement with (Names)

### ROAD MAINTENANCE

(From Road Maintenance Appraisal Summary, sheets are attached)

#### Contract Rates

Total Performance Recurrent Maintenance (Part A)

\$/CCF	\$/TON
--------	--------

C(T)5.31 - Recurrent Maintenance

\$2.15	\$0.75
--------	--------

C(T)5.312 - Reconditioning

\$0.62	\$0.20
--------	--------

Total Performance (Part A)

\$2.77	\$0.95 ( A )
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Total Required Deposits (Recurrent and Deferred) (Part B)

(Enter appropriate rate in TIM - Gate 4 - Road Maint. Plan - ADV105)

C(T)5.32# - Total Required Deposits (Part B)

\$0.66	\$0.24 ( B )
--------	--------------

C(T)5.314 - Total Dust Abatement (Part C)

\$1.23	\$0.43 ( C )
--------	--------------

TOTAL MAINTENANCE COST (Parts A-B-C)

\$4.66	\$1.62
--------	--------

#### Appraisal Rates

(Entries for 2400 - 17)

Total Required Deposits

\$ 0.95 CCF

Total Road Maintenance Costs (Performance + Deposits)

\$ 6.68 CCF

Refer to Road Maintenance Appraisal for Road Reconditioning cost per road segment.  
(Attach worksheets with road costs)

### LOGGING METHOD SUMMARY

	Tractor	Ground Lead	Skyline	Aerial Heli	Forwarder	TOTAL
Acres	589	0	851	0	0	1440
Volume	11143	0	15334	0	0	26477
EYD	1077	0	1006	0	0	

### IDENTIFY FACILITIES (ADVR102)

Attach completed "IDENTIFY FACILITIES FORM"

*J:\fsfiles\office\resources\Timber\Appraisal\_Contract\Appraisal*

☒ Check Box if accomplishing road construction or re-construction work under timber sale.

Appraisal information required for the 2400-17 report is to be summarized from the Identify Facilities

### SPECIFIED ROAD COST

	<u>Miles</u>	<u>Total Cost</u>
Construction	4.6	\$168,608
Reconstruction	23.7	\$119,389
Total Cost	\$287,997	/ 26477 CCF = \$10.88 \$ / CCF

# BASE RATE ADJUSTMENT FOR REGENERATION COST

Total Required Regeneration Costs - FACTS Line 21 Remarks

\$247,694.00

(Subtotal for Required Reforestation with National Program Support Cost Included)

Note: Base Rates may be raised for regeneration on only the Sawtimber component for green sales or % of Live Sawtimber on Salvage sales. In previously partial cut stands that are to be regenerated, protected regeneration cost shall be proportionate to remaining volume in the sale.

Sale Volume ( ALL Vol./Products) CCF X \$0.25 (NFF)

Select Either (a) or (b)

(A) Green Sale - Required Regen Cost \$ 100% Sawtimber Vol. =

(B) Salvage Sales enter % Live Sawtimber Volume; Partial Cut

Stands enter % Volume remaining.

37,939 \$0.25 \$9,484.75

% Sawtimber

\$247,694.00 100% \$247,694.00 (d)

70%

Total: \$257,178.75 (a)

Species Groups	Minimum Rates 1/		Base Rates 2/	
	Volume (CCF)	Per CCF	Total	Per CCF
WP, PP, C	353	\$5.00	\$1,765.00	\$11.25
All other species (list)	26124	\$3.00	\$78,372.00	\$9.25
Nonsawtimber (all species)	11462	\$1.00	\$11,462.00	\$1.00
TOTALS	37939	XXXXX	\$91,599.00	XXXXX
Sawtimber (Appraisal) Volume	26477			
Weighted Average Minimum Rate				\$3.03

(a) - (b) = (c) amount need in addition to base rates (plus \$.25/CCF)

\$165,579.75 (c)

Note: If minimum rate total (b) => (a) no adjustment needed

Adjust Base Rate

Adjustment To Minimum Rate:

\$ (c) / (Total Sawtimber Volume) CCF = \$ /CCF

\$165,579.75 26,477 \$6.25

1/ Minimum rates: FSH 2409.22, Chp 80, Sect. 81

(Base rates for Sawtimber can be weighted if appraising and advertising as a single species group (DF,O))

2/ Minimum rate + adjustment = Base Rate

## FACTS INFORMATION

(Enter Sale Information - SAIP100)

Amount of Stumpage Available for Protected KV at Base Rates =

\$247,694.00

( The only stumpage available for KV at advertised rates is when KV is protected by base rates)

## BRUSH DISPOSAL

From FACTS - Detailed Listing of BD and Purchaser Slash Treatment Activities

### Appraisal Rates for 2400-17 (Applied to Sawtimber only)

Forest Service Rate (Fund Code BDBD)      **\$239,829.00** Total \$      (a) **\$9.06** CCF

Purchaser Rate (Fund Code PPPP)      **\$230,881.00** Total\$      (b) **\$8.72** CCF

TOTAL: (a) + (b) =      **\$17.78** CCF

### Contract Rates (Applied to All Products)

Forest Service Rate Per CCF (Fund Code BDBD)      **\$6.32** CCF

(Rate Per CCF Converted to Tons for Weight Scale Contracts)      **\$2.24** TON

### Lump Sum BD Deposits for Weight Scaled Sales

Cutting Unit Number	Required Deposits
1	\$3,981.94
2	\$10,790.81
3	\$10,950.34
4	\$5,328.40
5	\$2,405.76
6	\$1,371.98
8	\$11,014.15
10T	\$2,310.04
10S	\$9,431.59
10B	\$12,526.52
11B	\$4,122.33
12S	\$1,978.21
12	\$33,738.02
12B	\$13,324.19
16	\$1,135.87
18	\$4,466.92
19	\$3,675.64
21A	\$4,383.96
21B	\$4,243.58
23	\$765.76
23B	\$2,539.76
24	\$2,967.31
25	\$5,156.10
26	\$8,053.22
27	\$5,156.10
28	\$3,682.02
28A	\$548.79
29	\$2,941.79
30	\$1,576.19

Total Cost      **\$174,567.29**

(Sheet 1)

## BRUSH DISPOSAL

### Lump Sum BD Deposits for Weight Scaled Sales

[illegible]

### Total Cost

**\$239,829.02**

(Sheets 1&2)

## EROSION CONTROL

Seed mix is to be included in C(T)6.601# - Erosion Control Seeding and Special Project Specifications (SPS) 625.05 in Road Package.

***Make sure that the seed mix and fertilizer are the same in both Contract and Road Package.***

Site specific areas, such as gravel pits and very dry sites may call for more and/or different species in the mix. Document below the rationale for deviation from the standard seed mix.

Species of Seed	Pounds per Acre
-----------------	-----------------

Winter Wheat	18
Hard Fescue	6
Orchard Grass	6

<b>TOTAL</b>	<b>30</b>
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Type of Fertilizer	Pounds per Acre
--------------------	-----------------

25-10-10 or 27-12-12 or 34-16-10	240
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<b>TOTAL</b>	<b>240</b>
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### Crossdrains

Installation of crossdrains on temporary roads, skid trails and firelines are included in their respective cost allowance.

### Scarification

acres @  per acre =

### Seed and Fertilizer

If Temp Road seeding is not included in Temp Road worksheet then enter here

Temporary Roads  feet =  acres

Firelines  feet =  acres

### Skid Trails

Number of acres to be skidded using ground based systems times the percentage of area requiring seed and fertilizer.  acres X  % =  acres

Number of acres to be yarded using cable systems times the percentage of area requiring seed and fertilizer.  acres X  % =  acres

### Landings

Number of landings  X  acres per landing =  acres

**TOTAL**  acres

	Tractor	Ground Lead	Skyline	Aerial Heli	Forwarder
Acres	589	0	851	0	0

**Seed mix, fert., labor costs:**

	<u>Lbs / Acre</u>		<u>\$ / Lb</u>		<u>\$ per Acre</u>
Winter Wheat	18	X	\$2.00	=	\$36.00
Hard Fescue	6	X		=	\$0.00
Orchard Grass	6	X	\$2.00	=	\$12.00
0	0	X		=	\$0.00
0	0	X	\$2.00	=	\$0.00
Fertilizer	240	X	\$0.20	=	\$48.00
*Labor per Acre				=	\$240.00

\$ per acre **\$336.00****Total cost for**

SEEDING	<b>65.5</b>	acres	X	<b>\$48.00</b>	\$/acre	=	<b>\$3,144.00</b>
FERTILIZER	<b>65.5</b>	acres	X	<b>\$48.00</b>	\$/acre	=	<b>\$3,144.00</b>
LABOR	<b>65.5</b>	acres	X	<b>\$240.00</b>	\$/acre	=	<b>\$15,720.00</b>
SCARIFICATION							<b>\$0.00</b>
<b>TOTAL</b>							<b>\$22,008.00</b>

**\$22,008.00** COST / **26477** CCF = **\$0.83** PER CCF

\* Engineers estimate Page 114 of the Cost Guide Item Labor Rates.

**Document Rational for Changes to Standard Seed Mix.**

**OTHER CONTRACTUAL REQUIREMENTS**

**( A )**

***Other - Include Contractual Obligations Requiring Performance Bond Coverage  
(Road closure, Barriers, Trail Restoration, etc.)***

ITEM	#	X	COST	=	TOT COST
2744C install Earth Barrier	1	X	\$500.00 each	=	\$500.00
2744D install Earth Barrier	1	X	\$500.00 each	=	\$500.00
2214H @1.3 install Earth Barrier	1	X	\$500.00 each	=	\$500.00
2718 install Earth Barrier	1	X	\$500.00 per mile	=	\$500.00
Road Stabilization - 2744C, 2744D 2214H, 2719, 2718 (scarify (\$200/mi), seed and fertilize (\$495/Mi)	6.1	X	\$695.00 per mile	=	\$4,239.50
2744D Culvet Removal	3	X	\$1,000.00 each	=	\$3,000.00
2744C Culvet Removal	1	X	\$1,000.00 each	=	\$1,000.00
XXX		X	\$0.00 per XXX	=	\$0.00
XXX		X	\$0.00 per XXX	=	\$0.00
XXX		X	\$0.00 per XXX	=	\$0.00
XXX		X	\$0.00 per XXX	=	\$0.00
XXX		X	\$0.00 per XXX	=	\$0.00
XXX		X	\$0.00 per XXX	=	\$0.00
XXX		X	\$0.00 per XXX	=	\$0.00
XXX		X	\$0.00 per XXX	=	\$0.00

**\$10,239.50** Cost / **26477** CCF = **\$0.39** CCF

**Subtotal Other Contractual Requirements ( A ) = \$0.39 CCF**

## OTHER CONTRACTUAL REQUIREMENTS (B)

The cost allowance for herbicide application has been based on the following assumptions; 300 gallon sprayer with herbicide injectors (not tank mixed); 20 gallon of carrier/ac; one trip will be required for each herbicide per road; labor rate and production includes mix, loading, cleanup and daily documentation; misc. expenses include equipment maintenance and depreciation, herbicide storage and handling and licensing fees. One mile of road with an average ROW of 30 feet is equal to 3.6 acres. Herbicides approved for use are listed in C(T)6.27# under Technical Spraying Specifications.

<u>Herbicide</u> (Common name)	<u>Application Rate oz</u> per acre	<u>Cost</u> Per oz	<u>Cost per</u> <u>UOM</u>
		\$0.00	\$0.00 mile
		\$0.00	\$0.00 mile
		\$0.00	\$0.00 mile
		\$0.00	\$0.00 mile

Price quote for herbicide obtained from: \_\_\_\_\_

<b><u>Sufactant &amp; Dye</u></b> 32 oz/gal H2O	\$0.68/acre = \$2.45/ mile
<b><u>Labor Rate</u></b>	\$40/ hour (2 Miles per hour)

Miles of road to be sprayed:  miles

<u>Herbicide to be applied:</u>	<u>Miles</u>	<u>\$ UOM</u>	<u>Tot Cost</u>
		\$0.00	\$0.00
		\$0.00	\$0.00
		\$0.00	\$0.00
		\$0.00	\$0.00

Sufactant & dye:	<input type="text" value="0"/>		\$0.00
Application Cost (Labor):	<input type="text" value="0"/>		\$0.00
Misc. Expenses:	<input type="text" value="0"/>		\$0.00

**TOTAL WEED TREATMENT:**  cost /  CCF =  CCF

### ON-SITE EQUIPMENT WASHING C(T)6.351#

**Cost allowance for washing off-road equipment Prior To Leaving locations identified in EIS/EA**

Number (pieces of equipment)	<input type="text"/>	Number of seasons	<input type="text"/>
Cleaning costs per piece	\$0.00	CCF	26477

**Total cost for washing equipment per CCF**  CCF

**Subtotal Other Contractual Requirements (B)**  CCF

**MISCELLANEOUS CONTRACTUAL REQUIREMENTS (C)**

*(Contractual Obligations That Would Not Require Coverage Under The Performance Bond)*

**Stump Shoveling** (Not required under normal operating/winter conditions. Include if clippers not allowed)

# stumps X  \$0.00 per stump =  \$0.00

\$0.00 Cost /  26477 CCF =  \$0.00 CCF

**Snow Plowing**

# miles X  per mile X  # plowings =  \$0.00

\$0.00 Cost /  26477 CCF =  \$0.00 CCF

**Miscellaneous: (Helicopter Landing Construction, Traffic Control etc...)**

ITEM	#	X	COST	=	TOT COST
cost for swing yarding unit 4 ,29	1	X	\$11,822.00 total	=	\$11,822.00
Temp Act Barriers	3	X	\$150.00 per each	=	\$450.00
Roads 2744C, 2744D, 2718					
XXX		X	\$0.00 per XXX	=	\$0.00
XXX		X	\$0.00 per XXX	=	\$0.00
XXX		X	\$0.00 per XXX	=	\$0.00
XXX		X	\$0.00 per XXX	=	\$0.00
XXX		X	\$0.00 per XXX	=	\$0.00
XXX		X	\$0.00 per XXX	=	\$0.00
XXX		X	\$0.00 per XXX	=	\$0.00
XXX		X	\$0.00 per XXX	=	\$0.00

\$12,272.00 Cost /  26477 CCF =  \$0.46 CCF

**Subtotal Miscellaneous Contractual Requirements ( C )**  \$0.00 CCF

<b>Total Other Contractual Requirements (A+B+C)</b>	<input type="text"/> \$0.39 CCF
<b>Brush Disposal (Purchaser and FS)</b>	<input type="text"/> \$17.78 CCF
<b>Total Environmental Protection Cost</b>	<input type="text"/> \$18.17 CCF

## TEMPORARY ROADS

1.09 Miles

Temporary Road #1

Temp A (unit 35)

Cost \$

\$1,012.00

Temporary Road #2

Temp B (unit 39B)

Cost \$

\$1,279.00

Temporary Road #3

Temp C (Unit 40 C)

Cost \$

\$3,652.00

Temporary Road #4

0

Cost \$

\$0.00

Temporary Road #5

0

Cost \$

\$0.00

**TOTAL TEMPORARY ROAD COST =**  
**(Total Temporary Development Costs)**

**\$5,943.00**

**\$5,943.00** COST / **26477** CCF = **\$0.22** CCF

Cost Guide for Temporary Roads

[http://www.fs.usda.gov/Internet/FSE\\_DOCUMENTS/stelprdb5279261.pdf](http://www.fs.usda.gov/Internet/FSE_DOCUMENTS/stelprdb5279261.pdf)

Temporary Road Seeding, Fertilizing and Obliteration Costs per CCF

**\$0.06**

## UNUSUAL CONDITION ADJUSTMENTS

**\$0.00** Cost \$ / **26477** CCF = **\$0.00** CCF

### TEMPORARY ROAD COSTS #1

Unit or Road Number: Temp A (unit 35)

*Reference to Cost estimating procedures for temporary roads from Cost Guide pages 100-104*

Average Side Slope	30	%
Length	685	Feet
Volume per Acre	0	

0.13 Miles

(Note: Do not adjust project costs for inflation or deflation)

Clearing and Grubbing (Table T-1)	=	Costs Prer Mile
evergreen ceanothus		\$3,980.00 Mile
Excavation (Table T-1)	=	\$2,240.00 Mile
light		
Seeding (Table T-1)	=	\$870.00 Mile
seed cost used here not under erosions control		
Obliteration (Table T-1)	=	\$625.00 Mile
Surface scarification		

Total Unit Cost Per Mile = \$7,715.00

Baisc Cost Total X Length = \$1,003.00

Drainage Structures

	Dips	X		=	\$0.00
	18" CMP	X		=	\$0.00
	other CMP	X		=	\$0.00

Drainage Cost Total = \$0.00

Other Requirements

###		###	X	\$0.00	=	\$0.00
###		###	X	\$0.00	=	\$0.00
###		###	X	\$0.00	=	\$0.00
###		###	X	\$0.00	=	\$0.00

Other Cost Total = \$0.00

Subtotal (Basic + Drainage + Other) = \$1,003.00

Mobilization (Table T-4) 7% = \$70.00

Subtotal = \$1,073.00

TOTAL COST \$1,073.00 / 1.06 Profit = \$1,012.00

Total Cost to be entered on 2400-17

## TEMPORARY ROAD COSTS #2

Unit or Road Number: Temp B (unit 39B)

**Reference to Cost estimating procedures for temporary roads from Cost Guide pages 100-104**

Average Side Slope	5	%			
Length	1055	Feet	0.20	Miles	
Volume per Acre	0				

**(Note: Do not adjust project costs for inflation or deflation)**

Clearing and Grubbing (Table T-1)	=	Costs Per Mile <span style="border: 1px solid black; padding: 2px;">\$3,660.00</span> Mile
<span style="border: 1px solid black; padding: 2px;">light grass</span>		
Excavation (Table T-1)	=	<span style="border: 1px solid black; padding: 2px;">\$1,320.00</span> Mile
<span style="border: 1px solid black; padding: 2px;">light</span>		
Seeding (Table T-1)	=	<span style="border: 1px solid black; padding: 2px;">\$730.00</span> Mile
<span style="border: 1px solid black; padding: 2px;">seed cost used here not under erosions control</span>		
Obliteration (Table T-1)	=	<span style="border: 1px solid black; padding: 2px;">\$625.00</span> Mile
<span style="border: 1px solid black; padding: 2px;">Surface scarification</span>		

**Total Unit Cost Per Mile** = \$6,335.00

**Basic Cost Total X Length** = \$1,267.00

Drainage Structures

	Dips	X	\$0.00	=	\$0.00
	18" CMP	X	\$0.00	=	\$0.00
	other CMP	X	\$0.00	=	\$0.00

**Drainage Cost Total** = \$0.00

Other Requirements

###	###	X	\$0.00	=	\$0.00
###	###	X	\$0.00	=	\$0.00
###	###	X	\$0.00	=	\$0.00
###	###	X	\$0.00	=	\$0.00

**Other Cost Total** = \$0.00

Subtotal (Basic + Drainage + Other) = \$1,267.00

Mobilization (Table T-4) 7% = \$89.00

Subtotal = \$1,356.00

**TOTAL COST** \$1,356.00 / 1.06 Profit = \$1,279.00

**Total Cost to be entered on 2400-17**

### TEMPORARY ROAD COSTS #3

Unit or Road Number: Temp C (Unit 40 C)

*Reference to Cost estimating procedures for temporary roads from Cost Guide pages 100-104*

Average Side Slope 0 %  
Length 4013 Feet 0.76 Miles  
Volume per Acre 0

*(Note: Do not adjust project costs for inflation or deflation)*

Clearing and Grubbing (Table T-1)	=	Costs Per Mile \$2,745.00 Mile
Old rd prism, minor clearing used 75% of recommended cost		
Excavation (Table T-1)	=	\$660.00 Mile
Old rd prism, minor clearing, cut recommended cost in half		
Seeding (Table T-1)	=	\$730.00 Mile
seed cost used here not under erosions control		
Obliteration (Table T-1)	=	\$625.00 Mile
Surface scarification		

Total Unit Cost Per Mile = \$4,760.00

Basic Cost Total X Length = \$3,618.00

#### Drainage Structures

Dips	X	\$0.00	=	\$0.00
18" CMP	X	\$0.00	=	\$0.00
other CMP	X	\$0.00	=	\$0.00

Drainage Cost Total = \$0.00

#### Other Requirements

###	###	X	\$0.00	=	\$0.00
###	###	X	\$0.00	=	\$0.00
###	###	X	\$0.00	=	\$0.00
###	###	X	\$0.00	=	\$0.00

Other Cost Total = \$0.00

Subtotal (Basic + Drainage + Other) = \$3,618.00

Mobilization (Table T-4) 7% = \$253.00

Subtotal = \$3,871.00

TOTAL COST \$3,871.00 / 1.06 Profit = \$3,652.00

*Total Cost to be entered on 2400-17*

## TIMBER SALE CONTRACT INFORMATION

### Tim Gate 4 - Contract Preparation information (ADVR114)

#### Normal Operating Season

ADVR114, Page 1

			Units	
First Period :	16-Jun	to	15-Oct	ALL
Second Period:		to		

(Note: If sale has more than one NOS - List dates and units for each NOS in A16 or AT13 of Timber Sale Contract)

#### Periodic Payment Schedule

Approximate Award Date: 09/23/13 mm/dd/yy

(And Road Completion Date if roads are included.)

Road Completion Date: 10/15/15 mm/dd/yy  
(ENTER N/A if no roads)

Contract Termination Date: 10/31/19 mm/dd/yy

TIM - Input at Gate 4 - Prospectus, Bid and Misc. Information - Page 1 (ADVR115)

Approximate Payment Date: 11/02/18

**Include the following statement in the Prospectus for sales without a road completion date.**

As per B(T) 4.213, Periodic Payment Schedule, a periodic payment will be required. The approximate periodic payment date is XXXX. The final date will be based on the award date of this timber sale contract.

#### FIRE LIABILITY CALCULATION (ADVR114, Page 4

5 CCF / man day --- 120 operating days / year --- 600 CCF / man year --- 12 hrs / shift --- 5 shifts / w  
AD-C Firefighter wage is updated yearly, ~March (FSH 5109.34 Chp 10). Link below to directive.

(A)	Total Volume =	37939	CCF
(B)	Sale Duration =	6.1	YEARS (Calculated from Award Date to Termination Date)
(C)	Operating Days in Sale =	732	(Sale Duration X 120 days.)
(D)	CCF Per Day =	51.8	(Total Volume / Operating Days in Sale)
(E)	Men Needed to Log Sale =	10.4	(CCF Per Day / 5 CCF)
(F)	Liability =	\$17.40	(Wage Rate AD-C 12 (hrs/shift) X 5 (# shifts) X

[http://www.fs.fed.us/r1/fire/nrcg/Committees/business\\_commit](http://www.fs.fed.us/r1/fire/nrcg/Committees/business_commit)

10.4	(# men) =	TOTAL LIABILITY =	\$10,858
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Round up to nearest \$50.00 up to \$200.00, then round up to nearest \$100.00

**ROUNDED TOTAL = \$10,900**

***When sale is entered through TIM, Bid Guarantee is calculated and auto-filled during completion of Gate 4 –Prospectus, Bid and Misc. Information – Page 1- (ADVR115)***

**MINIMUM PERFORMANCE BOND:**

***TIM Gate 4 - Prospectus, Bid and Misc. Information - Page 3 - (ADVR115)***

The greater of (A) or (B) rounded **UP** to nearest \$100.00 if sale is under \$10,000.00 stumpage value and up to nearest \$1,000.00 if sale is over \$10,000 stumpage value.

(A)    Advertised Value    \$446,479 X 10% = \$44,648

Rounded 10% Advertised Value = **\$45,000** (A)

(B) Purchaser requirements (Performance) - Based on number of seasons.

Road Maintenance =	\$2.15	CCF
Erosion =	\$0.83	CCF
Brush Disposal =	\$8.72	CCF
Other =	\$0.45	CCF
Total =	\$12.15	CCF

Total Purchaser Requirements = \$12.15 X Tot Vol 26477 CCF = \$321,602 Tot Value

divided by  # Seasons =  Performance Bond Value

Rounded Performance Bond Value = **\$54,000** (B)

## MINIMUM PERFORMANCE BOND

**\$54,000**